

Title (en)

System and method for adjustable carrier waveform generator

Title (de)

System und Verfahren für einen einstellbaren Trägerwellenformengenerator

Title (fr)

Système et procédé pour générateur de forme d'onde porteuse réglable

Publication

EP 1901141 A1 20080319 (EN)

Application

EP 07114874 A 20070823

Priority

US 46914706 A 20060831

Abstract (en)

A system and method for controlling an inverter of a motor control unit includes a controller having a user interface configured to allow user selection of a waveform increment value or a waveform amplitude threshold, The controller also includes an integrator configured to receive the waveform increment value and generate a signal at least based on the waveform increment value. A logic circuit is configured to monitor the signal and reset the integrator when the signal reaches the waveform amplitude threshold to generate a waveform having a frequency-independent amplitude. A comparator compares the waveform to a modulating signal to trigger gating pulses delivered to an inverter to drive an associated motor.

IPC 8 full level

G05B 11/28 (2006.01); **G05B 11/40** (2006.01); **H02M 7/529** (2006.01); **H02M 7/5395** (2006.01); **H02P 6/18** (2006.01)

CPC (source: EP US)

H02P 6/14 (2013.01 - EP US)

Citation (search report)

- [XA] US 2005174076 A1 20050811 - KATANAYA IKUYA [JP]
- [Y] EP 0886369 A2 19981223 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] EP 0254290 A2 19880127 - HITACHI LTD [JP]

Cited by

EP2408099A3

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1901141 A1 20080319; **EP 1901141 B1 20090722**; DE 602007001649 D1 20090903; US 2008054841 A1 20080306; US 7342380 B1 20080311

DOCDB simple family (application)

EP 07114874 A 20070823; DE 602007001649 T 20070823; US 46914706 A 20060831